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Notice of Allowability	Application No.	Applicant(s) RAPP, LUTZ	
	09/931,544		
	Examiner	Art Unit	
	Stephen C. Cunningham	3663	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not include	ed Course THIS
1. A This communication is responsive to paper submitted 02/02	<u>2/2004</u> .		
2. ⊠ The allowed claim(s) is/are <u>1-11</u> .			
3. igotimes The drawings filed on 05/19/2003 are accepted by the Exar	miner.		
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give: 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the depose attached Examiner's comment regarding REQUIREMENT F. 	been received. been received in Application No burnents have been received in this application. It does not be attached EXAMINER's reason(s) why the oath or declarate the submitted. It is be submitted. It is part of the proving Review (PTO-State of the proving Review of	national stage applicate complying with the requestion is deficient. 948) attached ffice action of gs in the front (not the line).	quirements OTICE OF
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal Pa 6. Interview Summary (Paper No./Mail Date 7. Examiner's Amendm 8. Examiner's Statemer 9. Other	PTO-413), e ent/Comment	ŕ

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DETAILED ACTION

Allowable Subject Matter

Claims 1-11 are allowed.

The following is an examiner's statement of reasons for allowance: The instant invention teaches a method, in claims 1-10, for compensating signal changes of a plurality of single signals forming an optical wavelength division multiplex signal caused by cross phase modulation in a fiber amplifier comprising the limitation *generating a control signal from the part of said optical wavelength-division multiplex signal, said control signal controlling a phase modulator.* The nearest prior art reference is Tsushima (JP 06132895 A) (hereafter "Tsushima") which teaches a device which generates a control single supplied to a drive circuit which drives a laser which is synthesized with the input optical signal in order to compensate for cross phase modulation in the input optical signal. Tsushima fails to disclose a phase modulator used to correct for cross phase modulation.

In the case of claim 11, the instant application claims limitations comprising:

a measurement coupler that couples out a part of the entire wavelength-division multiplex signal as an optical measurement signal wherein the coupled out portion of the optical wavelength-division multiplex signal contains a portion of each wavelength of the optical wavelength-division multiplex signal;

an opto-electrical converter that converts the optical measurement signal into an electrical measurement signal;

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an electrical amplifier that has an input supplied by said electrical measurement signal and an output that is an amplified measurement signal as a control signal. These limitations are considered a species of the genus method for generating a control signal and are therefor patentable when the genus is patentable.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen C. Cunningham whose telephone number is 703-605-4275. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on 703-306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shomas D. Janes

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